BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

NAME OF WORK:- Modified Estimate for the work of Improvements of Roads , Drains and Culverts in Main Roads and Cross Roads in Hottappa layout in ward no.07, Kodigehalli sub division

ESTIMATED COST 1888926.00

Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate in Rs	Amount in Rs
1	KSRRB M300-2: Earth work excavation by manual means in Ordinary Soil involving an average horizontal throw up to 2mts and an average lift up to 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH Chapter 3. (P.No.149, I.No.19.1 of PW,P&IWTD S.R 2011-12)								
	For removing of silt in Existing drain	Cum							
	Cross Roads		6 X 2	100.00	0.40	0.45	216.00		
	Main Roads		2 X 2	200.00	0.40	0.45	144.00		
			2	250.00	0.40	0.45	90.00		
	Over burden earth		8	11.00	4.00	0.90	316.80		
							766.80	65.97	**50586.00**
	Basic Rate Rs.	58.20							
	Add 8% A.W Rs.	4.66							
	Total Rate Rs.	**62.86**							
	Modified Tenderd Rate	**65.97**							
2	Removing BS Slab of drain and stacking., (P.No.28, I.No.5.32 of PW,P&IWTD S.R 2011-12)								
	For Existing drain sides	Sqm	6 X 2	100.00	1.35	--	1620.00		
			2 X 2	200.00	1.35		1080.00		
			2	250.00	1.35		675.00		
							3375.00		
	Deduct 30% for missing slabs			3375.00	--	--	1012.50		
							2362.50		
	Covering slabs		1	65.00	1.20		78.00		
			1	85.00	1.20		102.00		
					Net Qty		**2542.50**	49.87	**126794.00**
	Basic Rate Rs.	44.00							
	Add 8% A.W Rs.	3.52							
	Total Rate Rs.	**47.52**							
	Modified Tenderd Rate	**49.87**							
3	Refixing stone slabs of drains and pointing in CM 1:3. (P.No.28, I.No. 5.33 of PW,P&IWTD S.R 2011-12)								
	Qty Same as I.No.2 - 90%	Sqm	--	--	--	--	**2288.25**	62.34	**142650.00**
	Basic Rate Rs.	55.00							
	Add 8% A.W Rs.	4.40							
	Total Rate Rs.	**59.40**							
	Modified Tenderd Rate	**62.34**							
4	KSRB 2-2.1: Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead up to 50 m. after breaking of clods complete as per specification. (Page No.5 item No.2.3)								
	Culvert	Cum	10	7.00	2.00	1.20	168.00		
							168.00	151.88	**25516.00**
	Basic Rate Rs.	134.00							
	Add 8% A.W Rs.	10.72							
	Total Rate Rs.	**144.72**							
	Modified Tenderd Rate	**151.88**							

	materials, labour, HOM of machinery, curing complete as per specifications.								
	(P.No.12, I.No.4.3 of PW,P&IWTD S.R 2011-12)								
	Culverts	Cum	10	7.00	2.00	0.15	21.00		
							21.00	4134.41	**86823.00**
	Basic Rate Rs.	3518.00							
	Add 8% A.W Rs.	281.44							
	Total Rate Rs.	**3799.44**							
	Modified Tenderd Rate	**4134.41**							
6	KSRB - 5.2.3: Providing and constructing **granite size stone masornry in foundation cement mortar 1:6**, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m.apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (P.No.25, I.No.5.6 of PW, P&IWTD SR 2011-12)								
	Culverts	cum	10 X 2	7.00	0.60	1.00	84.00		
							84.00	2967.85	**249299.00**
	Basic Rate Rs.	2568.00							
	Add 8% A.W Rs.	205.44							
	Total Rate Rs.	**2773.44**							
	Modified Tenderd Rate	**2967.85**							
7	KSRB - 15.1.1: Providing flush pointing to square rubble, course or uncoursed stone masonry with **CM 1:3,** 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P.No.119, I.No.15.1 of PW, P&IWTD SR 2011-12)								
	Culverts	Sqm	10 X 2	7.00		1.00	140.00		
							140.00	83.68	**11715.00**
	Basic Rate Rs.	69.50							
	Add 8% A.W Rs.	5.56							
	Total Rate Rs.	**75.06**							
	Modified Tenderd Rate	**83.68**							
8	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. (7.50cms thick) (P.No.28, I.No.5.31.1 of PW,P&IWTD SR 2011-12.)								
	For BS Slab Drain	Sqm							
	Consider missing qty @ 10% As per		10	1012.50	--	--	**101.25**	343.44	**34773.00**
	Basic Rate Rs.	303.00							
	Add 8% A.W Rs.	24.24							
	Total Rate Rs.	**327.24**							
	Modified Tenderd Rate	**343.44**							
9	KSRB - 4-1.6: Providing and laying in position **plain cement concrete of mix M15** with cement @ 240 kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregates @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. (P.No.12, I.No.4.6 of PW,								
	Coping		10 X 2	7.00	0.60	0.10	8.40		
	For ramp flogging		4	7.00	0.35	0.20	1.96		
	Basic Rate Rs.	3959.00					**10.36**	4683.23	**48518.00**
	Add 8% A.W Rs.	316.72							
	Total Rate Rs.	**4275.72**							
	Modified Tenderd Rate	**4683.23**							

10	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC Works laid in 15cms thick layers and well compacted including vibrating curing etc., including smooth finish in CM 1:3 with all lead and lift etc., complete (exclusive of cost of steel and fabrication charges) Ready mixed Cement concrete for Beams, Columns Staircase and Roof with M-20 (1:1.5:3) (Cement 320kg/cum) (Page No.19 item No.4.49.1)								
	Culvert	Cum	10	7.00	2.00	0.23	32.20		
							32.20	5249.50	**169034.00**
	Basic Rate Rs.	4401.00							
	Add 8% A.W Rs.	352.08							
	Total Rate Rs.	**4753.08**							
	Modified Tenderd Rate	**5249.50**							
11	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc, and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness above 200 mm including cost of all materials, labour complete as per specifications. Specification No KBS 4.6.2. (Page No.17 item No.4.30)								
	Culvert	Sqm	10	7.00	0.60		42.00		
			10	22.00		0.25	55.00		
							97.00	306.03	**29685.00**
	Basic Rate Rs.	270.00							
	Add 8% A.W Rs.	21.60							
	Total Rate Rs.	**291.60**							
	Modified Tenderd Rate	**306.03**							
12	KSRB 4.9.2: Providing TMT. Steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and /or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, lobour, HOM of machinery complete as per specifications. (Page No. 19 item No.4.46)								
	110% of Qty vide Item No. 17	Qtl		32.20	1.20		38.64		
							38.64	7711.54	**297974.00**
	Basic Rate Rs.	5910.00							
	Add 8% A.W Rs.	472.80							
	Total Rate Rs.	**6382.80**							
	Modified Tenderd Rate	**7711.54**							
13	KSRRB M300-52.1. Scarifying the existing granular road surface to a depth of 50mm and disposal of scarified material within all lifts and leads upto 1000 metres complete as per specifications.								
	Hottappa layout	Sqm	2	160.00	6.50		2080		
	Cross Road		4	45.00	6.50		1170		
	Prakruthi Appartment		1	140.00	6.50		910		
							4160.00	16.72	**69555.00**
	Basic Rate Rs.	14.75							
	Add 8% A.W Rs.	1.18							
	Total Rate Rs.	**15.93**							
	Modified Tenderd Rate	**16.72**							
14	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. (P-157 Item No. 19.64 SR 2011-12)								
	Hottappa layout	Sqm	2	160.00	6.50		2080		
	Cross Road		4	45.00	6.50		1170		
	Prakruthi Appartment		1	140.00	6.50		910		
							4160.00	4.14	**17222.00**
	Basic Rate Rs.	3.65							
	Add 8% A.W Rs.	0.29							
	Total Rate Rs.	**3.94**							
	Modified Tenderd Rate	**4.14**							

15	KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications.(which includes cost of gravel / murrum, watering charges & compaction by vibratory roller)MORTH Specification No. 305 (Page 156. Item No. 19.60 SR 2011-12)								
	Hottappa layout	Cum	2	160.00	6.50	0.10	208		
	Cross Road		4	45.00	6.50	0.10	117		
	Prakruthi Appartment		1	140.00	6.50	0.10	91		
							416.00	154.15	**64126.00**
	Basic Rate Rs.	136.00							
	Add 8% A.W Rs.	10.88							
	Total Rate Rs.	**146.88**							
	Modified Tenderd Rate	**154.15**							
16	KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (Item No. 20.18 Page No. 166 SR 2011-12)								
	Hottappa layout	Cum	2	160.00	6.50	0.10	208		
	Cross Road		4	45.00	6.50	0.10	117		
	Prakruthi Appartment		1	140.00	6.50	0.10	91		
							416.00	1113.06	**463033.00**
	Basic Rate Rs.	982.00							
	Add 8% A.W Rs.	78.56							
	Total Rate Rs.	**1060.56**							
	Modified Tenderd Rate	**1113.06**							
17	Miscelleneous & Rounding off								1623.00
								Toatl Rs.	**1888926.00**

(Rupees Eighteen Lakhs Eight Eight Thousand Nine Hunderd Twenty Six only)

CERTIFICATE:

1 The work spot has been inspected me and the work is found to be necessary.
2 The estimate is prepared as per PW, P&IWTD S.R Bangalore circle for the year 2011-2012.
3 The Provisions made in the estimate are quite necessary and adequate.
4 The area comes with in the BBMP limits.

Junior Engineer
Ward No. 07

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP

Executive Engineer
Byatarayanapura Division
BBMP

Modified estimate
Sanctioned for Rs 18.89 lakhs
on 06.06.2013.

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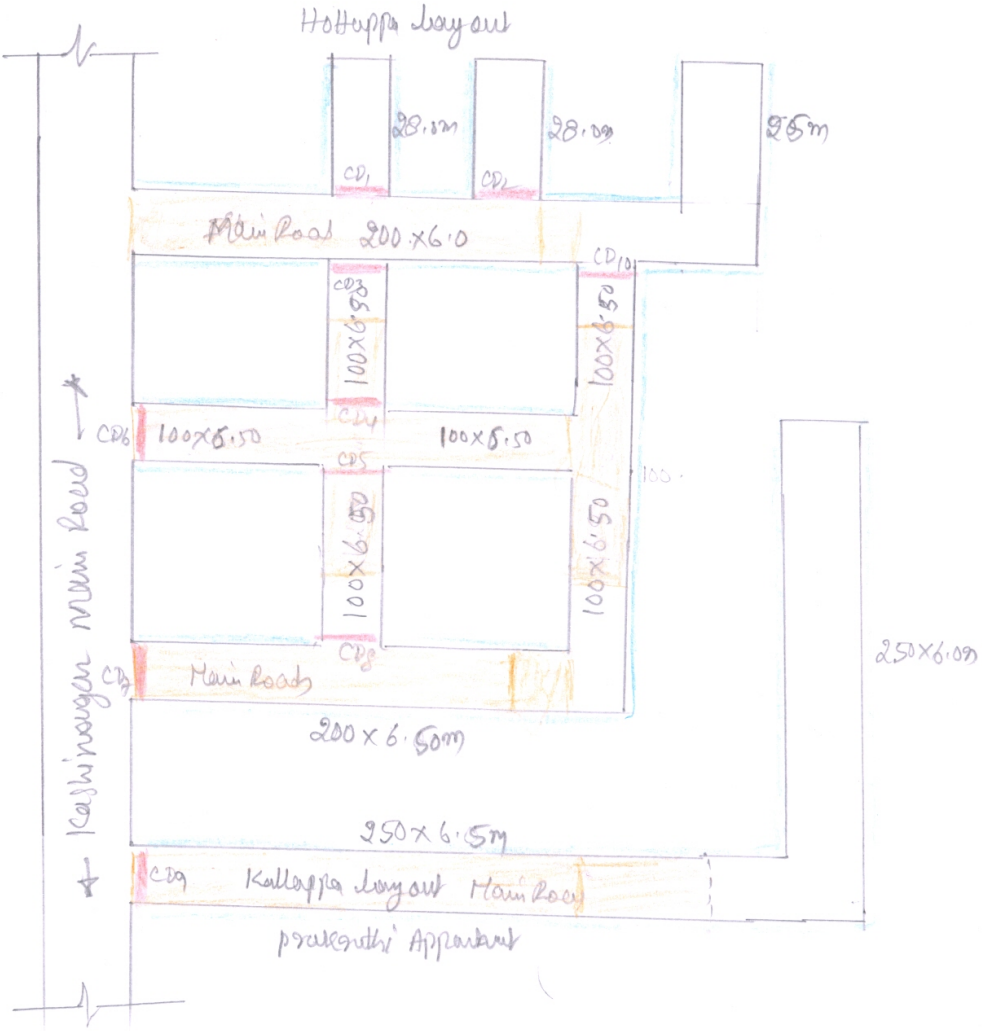
Name of Works: Modified Estimate for the Improvements of Roads Drain and Kerb in Main Road and Cross Road in Hotteppa layout in ward No 7 Byatarayanapura

NOT-TO-Scale



INDEX

- Wet Mix laying portion
- B.S. Slab warning
- CD works

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.